Curriculum Vitae

Wei-Ting Chen

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Education:

* Ph.D., Environmental Science and Engineering, California Institute of Technology (2008)
* M.S., Environmental Science and Engineering, California Institute of Technology (2004)
* B.S., Atmospheric Sciences, National Taiwan University (2001)

Research Interests:

* Aerosol direct and indirect climatic effects
* Cloud microphysics and Dynamics
* Global Climate Modeling
* Application of aerosol and cloud remote sensing observations
* Interactions between climate, tropospheric chemistry, and aerosols

Professional Experience:

* Postdoctoral Associate, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, (May, 2009-Present)
* Postdoctoral Associate, California Institute of Technology, Pasadena, (Jan.-Apr., 2009)
* Graduate Research Assistant, California Institute of Technology, Pasadena (2002-2008)
* Graduate Teaching Assistant, California Institute of Technology, Pasadena (Winter Quarter 2004 and Fall Quarter 2006)
* Research Assistant, National Taiwan University, Taipei (2001- 2002)

Honors, Awards, and Scholarships:

* 1997-2001, National Taiwan University President's Awards
* 2002-2003, Vito Vanoni Fellowship

Research Experience:

* Development of GISS-II' GCM for simulating the climate responses to aerosol direct and indirect effects
* Improvements of the Multiangle Imaging SpectroRadiometer (MISR) algorithm for retrieving biomass burning aerosols
* Analyses of CloudSat and A-Train observations of various cloud types and associated environmental parameters, with comparisons to ECMWF and plume model results.

Publications:

Liao, H., W.-T. Chen, and J. H. Seinfeld (2006), Roles of Climate Change in Global Predictions of Future Tropospheric Ozone and Aerosols, *J. Geophy. Res.*, **111**, D12304, doi:10.1029/2005JD006852

Chen, W.-T., H. Liao, and J. H. Seinfeld (2007), Future climate impacts of direct radiative forcing of anthropogenic aerosols, tropospheric ozone, and long-lived greenhouse gases, *J. Geophy. Res.*, **112**, D14209, doi:10.1029/2006JD008051.

Chen, W.-T., R. A. Kahn, D. Nelson, K. Yau, and J. H. Seinfeld (2008), Sensitivity of multiangle imaging to the optical and microphysical properties of biomass burning aerosols, *J. Geophy. Res.*, **113**, D10203, doi:10.1029/2007JD009414.

Liao, H., Y. Zhang, W.-T. Chen, and J. H. Seinfeld (2008), Effect of chemistry-aerosol-climate coupling on predictions of future climate and future levels of tropospheric ozone and aerosols, *Journal of Geophysical Research*, **114**, D10306, doi:10.1029/2008JD010984.

Chen, W.-T., A. Nenes, H. Liao, P. J. Adams, J.-L. F. Li, and J. H. Seinfeld (2009), Global climate response to anthropogenic aerosol indirect effects: Present day and year 2100, submitted to *Journal of Geophysical Research*.

Raes, F., H. Liao, W.-T. Chen, and J. H. Seinfeld (2009), Atmospheric chemistry - climate feedbacks, submitted.

Waliser, D. E., J.-L. F. Li, T. L'Ecuyer, W.-T. Chen, W.-L. Lee (2009), Estimating the radiative impact of ice mass in convective clouds and precipitation, in preparation.

Presentations:

Sensitivity of multiangle imaging to the optical and microphysical properties of biomass burning aerosols, poster presentation, American Geophysical Union, San Francisco, CA, 2005

Future climate impacts of direct radiative forcing of anthropogenic aerosols, tropospheric ozone, and long-lived greenhouse gases, poster presentation, American Geophysical Union, San Francisco, 2006

Sensitivity of multiangle imaging to the optical and microphysical properties of biomass burning aerosols, poster presentation, Gordon Research Conference on Radiation and Climate, New London, NH, 2007

Global climate response to anthropogenic aerosol indirect effects: Present day and year 2100, oral presentation, American Geophysical Union, San Francisco, CA, 2008

Developing and applying a CloudSat-centric A-Train and ECMWF analysis data set to better characterize clouds and convections, poster presentation, Joint CALIPSO-CloudSat Science Team Meeting, Madison, WI, 2009

Developing and applying a CloudSat-centric A-Train and ECMWF analysis data set to better characterize clouds and convections, oral presentation, American Geophysical Union, San Francisco, CA, 2009